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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/026,196 | 12/21/2001 | Thomas A. Love | 000105-0001 | 8436 |

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[REDACTED] EXAMINER

THOMPSON, CAMIE S

| ART UNIT | PAPER NUMBER |
|----------|--------------|
| 1774 | 4 |

DATE MAILED: 01/29/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | |
|------------------------------|------------------------|-----------------------------|
| Office Action Summary | Application No. | Applicant(s) |
| | 10/026,196 | LOVE, THOMAS,A. <i>A</i> |
| | Examiner | Art Unit |
| | Camie S Thompson | 1774 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) 28-33 is/are withdrawn from consideration.
- 5) Claim(s) ____ is/are allowed.
- 6) Claim(s) 1-27 is/are rejected.
- 7) Claim(s) ____ is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on ____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on ____ is: a) approved b) disapproved by the Examiner.
 If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. ____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
 * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). ____ .
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)
 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____ . 6) Other:

DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-27, drawn to a high temperature fiberboard, classified in class 428, subclass 292.4.
 - II. Claim 28-31, drawn to a process comprising a fiberboard, classified in class 156, subclass 62.2+.
 - III. Claims 32-33, drawn to a pressed ceramic fiberboard, classified in class 501, subclass 1+.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, a fiberboard can be made glass fibers.

Inventions I and III are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species

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are patentably distinct (MPEP § 806.04(h)). In the instant case, the intermediate product is deemed to be useful as insulation material and the inventions are deemed patentably distinct since there is nothing on this record to show them to be obvious variants. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions anticipated by the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Inventions II and III are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, glass fibers can be used to make a fiberboard.

3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

4. During a telephone conversation with Tony D. Alexander on January 14, 2002 a provisional election was made with traverse to prosecute the invention of Group I, claim 1-27. Applicant in replying to this Office action must make affirmation of this election. Claims 28-33 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Claim Objections

5. Claim 15 is objected to because of the following informalities: The word “of” is missing from the phrase “consisting of”. Examiner suggests added the word “of” after the word “consisting”. Appropriate correction is required.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

7. Claim 12 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear as to whether or not mineral wood is adhered to the ceramic fiber.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined

was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

9. Claims 1-9 and 23-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Francis et al., U.S. Patent Number 5,723,226.

Francis discloses a high temperature fiberboard as per instant claims 1-9 and 23-27 (see column 6, lines 8-20). The process limitation of providing fiberation, forming a mat, accumulating layers, heating, pressing and drying and the additional of further material are not given any patentable weight in a product claim. Claims 1-9 and 23-27 are product-by-process claims.

Even though product-by-process claims are limited and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior art was made by a different process. See MPEP 2113.

10. Claims 10-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Vandermeer, U.S. Patent 6,214,102.

Vandermeer discloses a ceramic fiberboard made from bonded ceramic fibers wherein the fibers are aluminosilicate or mineral wool as per instant claims 10-12 (see column 1, lines 30-56 and column 2, lines 58-65). Vandermeer also discloses using an inorganic binder such as silica sols to bond the ceramic fibers together as per instant claims 13-15 (see column 1, line 60-column 2, line 11). The reference also discloses that clays such as mullite and kyanite are used as fillers in the fiberboard as per instant claims 16 and 17 (see column 3, lines 58-68).

Claim Rejections - 35 USC § 103

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

12. Claims 10-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shannon, U.S. Patent Number 3,661,663 in view of Hart, U.S. Patent Number 6,043,172.

Shannon discloses an insulation material used as a fiberboard wherein the body of fibers can be alumina silicate and mineral wool and are bonded together with potassium silicate as per instant claims 10-11 and 13-15 (see column 1, lines 25-65). In addition, Shannon discloses using bentonite clay as filler material as per instant claims 16-17 (see column 2, lines 46-75).

Examples 6 and 8 of the Shannon reference disclose that the fiber weight of the fiberboard is about 75%, 7% sodium silicate binder and about 15% magnesium silicate filler as per instant claims 18-22. The Shannon reference does not disclose that the ceramic fiber and mineral wool are adhered together as per instant claims 10 and 12. Hart teaches ceramic fiber insulation material used as fiberboard (see abstract and column 7, lines 66-67). Hart also teaches a ceramic fiber blend wherein the ceramic fiber may be silica present with alumina blended with mineral wool as per instant claims 10 and 12 (see column 3, lines 15-39). The ceramic fiber blend possesses excellent adhesive characteristics and is virtually shrinkfree. Therefore, it would have been obvious to one of ordinary skill in the art to use a ceramic fiber blend such as alumina

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silicate and mineral wool from the Hart reference bonded together to provide an insulation material that is shrinkfree and has excellent adhesive characteristics as shown by the abstract of the Hart reference.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (703) 305-4488. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia H. Kelly, can be reached at (703) 308-0449. The fax phone numbers for the Group are (703) 872-9310 {before finals} and (703) 872-9311 {after finals}.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0661.

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